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(54) Title: MODIFIED LIPOPHILIC POLYMERS FOR THE PURIFICATION OF WATER

(57) **Abstract:** The invention deals with lipophilic modified dendrimers and hyperbranched polymers that can encapsulate organic pollutants of a diversity of sizes and shapes and which are prepared following the modification of the functional groups present at the surface of the polymer. These functional polymers are characterized by the fact that their nanocavities do not have predetermined dimensions but their size and shape are affected by the size and shape of the pollutant they will encapsulate or otherwise they will be so-adjusted to it.

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